

Section J

Site Systems & Regulatory Analysis

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INTRODUCTION

Site Systems and Regulatory Analysis consists of Project Baseline Summary (PBS) RL-SS01, Work Breakdown Structure (WBS) 3.4.1 (except for 3.4.1.3, 3.4.1.7, and 3.4.1.8, which are other Site contractor's work scopes). The six sub-projects addressed in this section are:

- Planning and Integration (WBS 3.4.1.1)
- Environmental Compliance Program (WBS 3.4.1.2)
- Systems Engineering and Integration (WBS 3.4.1.4)
- Information Resource Management (WBS 3.4.1.5)
- Training (WBS 3.4.1.6)
- Hazardous Materials Management and Emergency Response (HAMMER) (WBS 3.4.1.9)

NOTE: Unless otherwise noted, all information contained herein is as of the end of December 2002.

NOTABLE ACCOMPLISHMENTS

Planning & Integration (P&I) WBS 3.4.1.1

Government Furnished Services/Information (GFS/I) — Fluor Hanford (FH) Strategic Planning and Integration coordinated and submitted to RL a status of GFS/I on December 17, 2002. Future status reporting (quarterly) will be generated from automated data queries from project-integrated schedules versus the current manual input process. Data reported will include only those significant GFS/I actions as noted in the FH contract performance incentives. FH will code contractual GFS/I into Primavera (P3) schedules via unique identifiers, displaying logic ties, durations, baseline and forecast dates.

FH Performance Measurement System ("Dashboard") — The P&I portions of the FH Dashboard performance Measures were provided to Environmental Safety & Health (ES&H) on December 16, 2002 for consolidation and presentation to FH Senior Management on December 18, 2002. The cost/schedule indices and funding graphics were not prepared pending the initial FY 2003 performance processing.

FY 2003 Interim Reporting Baseline — Support was provided to the FY 2003 Interim Reporting Baseline update during the month of December. Support includes providing the projects with overall guidance, staffing plan formats, service level agreement criteria, and updating systems including milestones, GFS/I, and pricing rates. The deliverable is due to RL by January 30, 2003.

New Budget Pricing Rates for FY 2003 – FY 2006 — P&I completed a new budget pricing rate table for FY 2003 – 2006 and placed them in P3 and the Resource Planning System (RPS). The rates reflect updated merit assumptions, and inclusion of organizational overhead rates associated with the centralized functions. In addition, a rate (new resource category) for Closure Services was added beginning in FY 2004.

Initial Performance System Processing — FH ran the initial performance system processing for FY 2003 in December. FY 2003 performance had been delayed pending finalization of contract negotiations. This will provide data for first quarter Integrated Planning, Accountability, and Budgeting System (IPABS) reports that are due in mid-January.

Systems Modifications were made to support the January Interim Reporting Baseline. The modifications included updating the planning rates, removing 2001 and 2002 performance data, and having contract-to-date reports begin with FY 2003. Also, reports were added for the GFI/GFS activities that require RL action and for FH Performance Incentives status.

Microsoft Windows XP Testing — In preparation of the site migration to the Windows XP operating system, and in an effort to alleviate any potential problems in advance, a workstation was converted to XP, and P&I began testing FH's project control systems in the XP environment. To date, all Hanford Data Integrator (HANDI), Performance Module (PERF), and Integrated Planning and Reporting System (IPARS) applications have been tested for Windows XP compatibility. A few minor problems were noted and corrections initiated. Although all project control systems will be certified as XP compatible, modifications will be required for Software Distribution installation routines for Windows XP.

Environmental Compliance Program (ECP) WBS 3.4.1.2

Hanford Site Annual Asbestos Notification of Intent — The Hanford Site Annual Notification of Intent for Calendar Year 2003 was submitted by ECP to Benton Clean Air Authority (BCAA) on December 10, 2002, twenty-one days ahead of schedule. BCAA approved the document on the same date.

Quarter 2 RCRA Permit Class I Modification Notification — The Quarter 2 RCRA Permit Class I Modification Notification package was delivered to RL on December 18, 2002, sixteen days ahead of schedule.

Chemical Inventory Tracking System Put into Production — The Chemical Inventory Tracking System (CITS), which replaces the former Chemical Management System (CMS), was successfully put into production. All chemical inventory data from CMS has been converted. This web-based application has significantly enhanced functionality and provides FH with the ability to track and manage chemicals from procurement through final disposition. CITS tracks all chemicals that are 'purchased for' or 'created on' the Hanford Site.

Stack Sampling System Studies — On December 3, 2002, ECP and the RL air lead point of contact (POC) apprised DOE-HQ of the findings of the Plutonium Finishing Plant (PFP) 291-Z-1 sampling system studies, which showed conclusively that the 24-year-old typical sampling rake was equivalent in accuracy to the new shrouded probe, and that emissions had not been underreported. ECP further discussed its plan to seek relief on Hanford being obligated to perform the full array of stack inspection requirements imposed by the new amendment to National Emission Standards for Hazardous Air Pollutants (NESHAP). Highlighted in that discussion was the inordinate costs of performing some of those inspections compared with the negligible benefit to the public from Hanford stack emissions, which are near background levels.

Ecology Approval of PFP Request for Exemption — ECP provided support to PFP in rapidly responding to the State of Washington Department of Ecology's (Ecology's) initial denial of the project's request for exemption from new source review air permitting under WAC-173-400-110 and WAC-173-460. A meeting with the Project and Ecology was quickly arranged with FH leading the discussion. As a result, Ecology changed its position and concurred with FH's request for exemption. A letter to this affect was issued by Ecology on December 18, 2002.

Regulator Inspection Support — The following regulator facility inspections and follow-up to information and/or action requests were coordinated:

- December 10, 2002, the State of Washington Department of Health (DOH) inspection of the 300 Area Process Sewer
- December 18, 2002, DOH Level II Stack Inspection of the 296-W-4 stack at the Waste Receiving and Processing Facility (WRAP)
- Continued populating the Regulatory Agency Inspection Database (RAID) and initiated desk instruction
- Reviewed information on the U.S. Environmental Protection Agency (EPA) Enforcement and Compliance History Online Web Site, and conferred with RL
- Gathered, cleared for public release, and provided requested information to DOH concerning Waste Encapsulation and Storage Facility stack, WRAP and 300 Area Process Sewer.

Spill and Release Reporting — There were no reportable events with a release to the environment and three reportable code non-compliance events reported directly to the regulatory agencies by the FH POC through the Occurrence Notification Center (ONC).

Systems Engineering and Integration (SE&I) WBS 3.4.1.4

System Engineering Management System Solution — In support of the efforts under the Hanford Site Analyses and Models and the Hanford Site Requirements Analysis Reports, the following work was accomplished:

- Provided technical baseline information for the revised PHMC Statement of Work (SOW). The statement of work was approved by RL and FH management and issued as Modification 172.
- Worked with FH and RL managers to evaluate the formal reports that FH provides to RL. There are 114 reports in the revised SOW, and an additional 159 reports were evaluated. Of the 159 reports, 81 have been deleted by mutual agreement with RL; 26 were identified as Not Applicable (NA); 34 will be added to the SOW; 5 are being deferred to the team that is negotiating changes to the PHMC clauses; and 13 are continuing to be negotiated.
- Continued gathering facility information to support the rough order of magnitude (ROM) model analysis for the Central Plateau Remediation Project (CPRP). This information will be used to support the CPRP baseline development activities.

System Engineering Technical Products — In support of the efforts for Prime Contract Integration the following work was completed:

- Working with CH2M HILL Hanford Group, Inc. (CH2M HILL) and Spent Nuclear Fuel (SNF) Project to clarify interface within the Canister Storage Building relative to receipt and storage of Immobilized High Level Waste from the Waste Treatment Plant.

Information Resource Management (IRM) WBS 3.4.1.5

Project Hanford Cyber Security Program Plan — The Project Hanford Cyber Security Program Plan was submitted to and approved by RL. The program plan describes the technology and processes that are used to protect the Project Hanford computing and communications infrastructure. DOE Cyber Security orders require that the plan be updated every two years.

Microsoft Office XP — The pilot program for Office XP is complete, and approval has been given for Office XP to move to the production environment. This move is in preparation for the Windows XP implementation that will include Office XP.

Records Management Information System (RMIS) — RMIS was upgraded to allow validation and input of groundwater well data. The RMIS system interfaces with the Hanford Well Information System (HWIS) tables for validation. This additional functionality provides for searchable features that will soon be available on the HWIS website allowing users to identify and view RMIS documents associated with wells.

Symantec Anti-Virus Upgrade Completed — Symantec AntiVirus (SAV) Enterprise Edition software replaced McAfee as the virus scanning software for the Hanford Site. SAV was successfully deployed to approximately 8,000 computers on the Hanford Local Area Network (HLAN). The enterprise edition of SAV has increased services that have proven beneficial in our HLAN environment. These benefits include a robust set of client management tools that include abilities to quarantine viruses on servers, clients, and email messages. New viruses encountered are automatically sent to Symantec for review and resolution. SAV also provides for transparent client updates, increased client stability, reduced conflicts with HLAN systems, and improved compatibility with Microsoft's Site Management Server (SMS). SAV is now part of the daily HLAN security check done on all networked Microsoft systems running at Hanford.

Transfer of FY1999 and FY2000 Scientific and Technical Information (STI) — STI was transferred to the Office of Scientific and Technical Information (OSTI) in Oak Ridge in the month of December. This resolved a technical issue regarding file formats and compatibilities. The FY2001 documents are currently being converted to a portable document format (PDF) file and will be posted to the Public Information website in the near future.

Training WBS 3.4.1.6

Hazardous Waste Training — Two hundred fifty-seven students was trained in hazardous waste handling during December 2002. Ten eight-hour refreshers and one combination (24/40/Bridge) class were conducted. The combination course allows students to attend the first three days (24-Hour Initial), or all five days (40-Hour Initial), or the final three days (Bridge to 40-Hour).

Respiratory Training — One hundred eighty-six students were trained in respiratory protection during December 2002. Sixteen respiratory protection refresher classes and two respiratory protection initial classes were conducted. In addition, three special respiratory protection classes were added, providing training for seven students just in time to meet work requirements.

Respiratory Training Development — Due to multiple requests from the field, the Basic Respiratory Initial course has been separated into two courses, Respiratory Knowledge-Based Initial and Air Purifying Respirators (APR) Initial (practical). Changes in the Respiratory Protection curricula were made this month and will be implemented January 6, 2003.

Mask Fit Training — Two hundred thirteen students were processed through Mask Fit during December 2002.

Occupational Safety and Health (OSH) Training — Training supported the following OSH training activities during December 2002:

- Four sessions were delivered for 32 students on various hoisting and rigging topics during December 2002. The topics included basic crane and rigging, aerial lift safety, load securing, and inspection of overhead cranes.

Nuclear Safety Training — Training supported the following Nuclear Safety training activities during December 2002:

- Four sessions of nuclear criticality safety training were delivered for 19 students during December 2002.
- Thirty-six sessions of radiation worker training were held during December 2002. Fifty-one students attended 15 sessions of initial radiation worker training, and 169 students attended 21 sessions of radiation worker retraining.
- Four sessions of the continuing training cycle for radiation control technicians (RCTs) were completed during December 2002. The two-day class contains lessons on the area radiation monitor, personnel contamination monitor, continuous air monitor and the E-600 instrument. The course also covers drill design and implementation, lessons learned, conduct of operations, and a hands-on drill.

Emergency Preparedness (EP) Training — Training supported the following EP training activities during December 2002:

- Hanford Incident Command System Refresher Training – 64 students
- Building Emergency Director Refresher Training – 16 students
- Building Warden Refresher Training – 19 students

Web-Based Training (WBT) — Training offers WBT through the HAMMER Courseware Management System (HAMMERCMS). In December 2002, HAMMERCMS recorded 3,909 course completions. This includes 842 Hanford General Employee Training (HGET) student completions.

HAMMER WBS 3.4.1.9

Hanford Site Training at HAMMER — HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During December, 123 classes were conducted at the Volpentest HAMMER facility, for a total of 1,901 Hanford site student days. Highest attended health and safety classes included Hazardous Waste Operations, Radiation Worker II Requalification, Respiratory Protection, Basic Medic First Aid training, and Introductory Engineering training.

Brokered Classes — In support of the Hanford site training needs, HAMMER brokered or facilitated 15 training sessions covering 11 specific course contents. These training sessions supported PHMC and Office of River Protection contractors as well as FH facility training. Training was provided to CH2M HILL, PNNL, and other FH projects. Topics covered Apparent Cause Analysis, Labor Relations Essentials, Data Reporting, Successful Presentations, Leadership Essentials, and Advanced Rigging Evaluations. Multi-contractor sessions were also provided on Water Hammer, and Conduct of Operations.

Emergency Vehicle Operations Course (EVOC) Construction — Construction of the EVOC was approved in December, and is scheduled to start on January 13, 2003. The EVOC, which will be located west of the HAMMER site, will provide a quarter-mile straight–away, a 1.36 mile serpentine track, a 400 foot square skills pad, and an 1100 foot skid pad. The site's surveying, earthwork, grading, and the gravel sub-grade will proceed as scheduled, however, the finish grade, paving and concrete work may be weather dependant. The EVOC contract was awarded to A&B Asphalt for $735K. The total project cost, including construction management will be $991K. The EVOC project is split-funded between HAMMER and Safeguards and Security.

Voluntary Protection Program (VPP) Self Assessment — The annual VPP self-assessment kick-off was held this month. Volunteers were gathered from across the organization and interviews of staff initiated. The assessment is due to be completed in January 2003 and submitted to FH senior staff for inclusion with the other VPP site reports as one report to DOE-HQ.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

None identified at this time.

Opportunities for Improvement

Information Resource Management — The Electronic Software Acquisition (ESA) system order process has been automated and is in its final testing stages. The system has been automated to capture all the order information into a database and automatically forward emails for approvals, statusing, and granting access to the product install and license information. The system will also provide the Fixed Unit Rate (FUR) system with billing information.

UPCOMING ACTIVITIES

Environmental Compliance Program Environmental Compliance Program

- ECP-03-802, Quarter 2 NESAHP Status Report - due January 24, 2003
- ECP-03-401, ST 4508 Log of Significant Discharges - due January 31, 2003
- ECP-03-402, First Hanford Semi-Annual Report - due February 13, 2003
- ECP-03-704, Annual Noncompliance Report - due February 13, 2003
- ECP-03-501, EPCRA Section 312 Tier Two Emergency and Hazardous Chemical Inventory Report - due February 21, 2003
- ECP-03-502, Hanford Site Annual Dangerous Waste Reports - due February 21, 2003

Systems Engineering & Integration (SE&I)

- In response to Project comments on the Technical Baseline, SE&I is working to improve the Hanford Site Technical Database (HSTD) functional analysis **-** due January 2003 for FY 2003 (through December 2002).

Information Resource Management

- The upload/download process installing Windows XP on desktop computers is being re-engineered. This new process will allow Windows XP and Office XP to be deployed in a highly automated method. The prototype modules are complete and being tested. Software Application testing continues.
- The Narrowband Radio Migration Project modifies or replaces existing radio systems to insure the Hanford radio systems operate in compliance with the National Telecommunication and Information Administration (NTIA) Federal Narrowband Mandate by January 1, 2005. End-user needs are being assessed in preparation for ordering equipment in March 2003.
- Three redundant Gigabit Ethernet links, in the network backbone infrastructure, are being implemented. One existing fiber path will be converted to Gigabit Ethernet. Two new Gigabit Ethernet fiber paths will originate in the Federal Building, one going to 200 East Area, and one going to 200 West Area. Upon the completion of this activity, Asynchronous Transfer Mode (ATM) network hardware will be removed. This is a 6.5 times faster technology that greatly simplifies operation and maintenance and will allow a consolidation of data centers. The new topology also increases high-speed redundancy, thus improving the reliability of the network.

Training

- Train Hanford Site workers to meet health and safety requirements **-** ongoing

Hammer

- Support Hanford Site training requirements at HAMMER **-** ongoing

MILESTONE ACHIEVEMENT

FH CONTRACT MILESTONES

There are no milestones (EA, DOE-HQ, or RL) in FY 2003 for this PBS.

PERFORMANCE OBJECTIVES

There are no performance objectives in FY 2003 for this PBS.

FY03 SCHEDULE/COST PERFORMANCE

Cost/schedule performance is not available for this reporting status; data will be provided during the next reporting period based upon contract baseline updates as submitted to RL on January 30, 2003.

FUNDS MANAGEMENT

FYTD FUNDS VS SPENDING FORECAST ($000)

		FH Funds Allocation	FYSF	Variance
3.4.1	**Site Integration**			
	SS01			
	Post 2006 - Operating	**$ 23,671**	**$ 20,251**	**$ 3,420**
	Total	**$ 23,671**	**$ 20,251**	**$ 3,420**

[Status through December 2002]

ISSUES

TECHNICAL, REGULATORY, EXTERNAL AND DOE ISSUES AND DOE REQUESTS

None identified at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

None identified at this time.